

CALIFORNIA INSTITUTE OF TECHNOLOGY

Robinson Laboratory of Astrophysics

**DATA ON THE SUITABILITY OF THE
WHITE MOUNTAINS OF CALIFORNIA
AS AN OBSERVATORY SITE**

MONTHLY REPORT ON RESEARCH CONDUCTED UNDER
OFFICE OF NAVAL RESEARCH CONTRACT N6 onr 24421

NOV 1948

DATE 10-11 NOV 48

DAYTIME OBSERVATIONS

TO TEST SUITABILITY OF
SITE FOR SOLAR RESEARCH

WHITE MOUNTAIN OBSERVATORY

% MR. ELLIOTT EARL
BIG PINE, CALIFORNIA

FORM NO. 1071

TIME GCT	WEATHER READING	WEDGE BRIGHTNESS	REDUCED SKY BRIGHTNESS	SEEING	WIND DIRECTION	WIND SPEED	ATMOS. PRESSURE	CLOUD TYPE	CLOUD COVER (TENTHS)	OBSERVER	REMARKS
1500					NW	4		S2	9	(E)	
1600					NW	4		S3	9	(E)	
1700					NW	4		S4	9	(E)	
1800					SW	6		S4	10	(E)	
1900					SW	4		S4	10	(E)	
2000					N	1		S3	8	(E)	
2100	1.6	350	6	N	5			S2	7	(E)	
2200	2.0	230	6	C	—			S1	2	(E)	all clds near W + S. HORIZON.
2300	2.1	220	7	NW	8			S1	2	(E)	all clds near W + S. Horizon
2400					NW	5		K3	2	(E)	acts in (K3) obscured sun.
1100-V 0100					N	6		K1	1	(E)	Sundown.

HOURS CLASS 1	HOURS CLASS 2	HOURS CLASS 3	HOURS CLASS 4	HOURS CLEAR TOWARDS SUN	VISUAL SKY PHOTOMETER No. 7	
—	—	2	1	4	PHOTOGRAPHIC WEDGE No. 6A	
NIGHT OBSERVATIONS		TIME PST.	SKY	SEEING	OBSERVER	REMARKS

OTHER NOTES FOR DATE

Seeing obs taken with 3" MKI
TYPE O.25X dipboard Telescope. Image focused
on paper and amount of blur on sun's edge evaluated
arbitrarily.

DATE 11-12 NOV 48

DAY MONTH YEAR

DAY TIME OBSERVATIONS

TO TEST SUITABILITY OF
SITE FOR SOLAR RESEARCH

FORM: NOV. 1948

WHITE MOUNTAIN OBSERVATORY

% MR. ELLIOTT EARLL

BIG PINE, CALIFORNIA

T. E. GCT.	WEED READING	REDUCED SKY BRIGHTNESS	SEEING	WIND DIRECTION	WIND SPEED	ATMOS. PRESSURE	CLOUD TYPE	CLOUD COVER (TENTHS)	OBSERVER	REMARKS
1500				SW	3		S2	8	(E)	Thin cirrus obscured Sun.
1600	1.5	350	5	N	4		S2	3	(E)	all clouds near sun.
1700	1.8	270	5	NW	3		S1	3	(E)	few cirrus near sun ac. back to NW
1800	1.8	270	5	N.E.	2		S2	2	RWM	
1900	2.0	230	5	NE	4		S1	1	(E)	few S1 near horizon to S.E.
2000	2.3	180	5	NE	4		S1	-1	(E)	
2100	1.7	280	6	N	8		O	O	(E)	Few ci on S.E. horizon
2200	1.3	430	7	SW	8		O	O	FD	Few ci on S.E. horizon.
2300	3.5	50	7	W	3		O	O	(E)	
2400	1.5	350	7	NW	7		O	O	FD	HAZE WSW over S. GRASS
12 NOV 0100				W	4		O	O	(E)	SUN DOWN

HOURS CLASS 1	HOURS CLASS 2	HOURS CLASS 3	HOURS CLASS 4	HOURS CLEAR TOWARDS SUN	VISUAL SKY PHOTOMETER NO. 7
1	—	5	3	10	PHOTOGRAPHIC WEDGE NO. 6A.

NIGHT OBSERVATIONS	TIME P.S.T.	SKY	SEEING	OBSERVER	REMARKS

OTHER NOTES FOR DATE

DAY MONTH YEAR

BIG PINE, CALIFORNIA

OTHER NOVEL FOR DATE

DATE 13-14 NOV 48

DAY MONTH YEAR

DAY TIME OBSERVATIONS

TO TEST SUITABILITY OF
SITE FOR SOLAR RESEARCH

FORM 1 NOV. 1946

WHITE MOUNTAIN OBSERVATORY

% MR. ELLIOTT EARL

BIG PINE, CALIFORNIA

TIME GCT	WEDGE READING	BRIGHTNESS SKY	SEEING	WIND DIRECTION	WIND SPEED	ATMOS. PRESSURE	CLOUD TYPE	CLOUD COVER (TENTHS)	OBSERVER	REMARKS
1500				N	1		53	5	(E)	Bank 53 observed Sun
1600				—	—		53	3	(E)	Bank 53 obs. Sun and on Horiz only.
1615	4.0	29	5	—	—		53	3	(E)	Sun came into clear special obs.
1700	3.2	78	5	—	—		52	4	(E)	52 obs. and near sun Sun in clear
1800	3.0	81	5	—	—		51	2	(E)	51 to 3 below Sun
1900	4.2	26	6	NE	4		0	0	(E)	
2000	3.8	31	6	E	4		0	0	(E)	
2100	4.2	26	6	SW	3		0	0	(E)	
2200	4.0	29	6	SW	8		0	0	(E)	Low 52 low on SE. Horizon
2300	3.9	30	6	SW	5		0	0	(E)	
2400	3.1	79	6	SW	8		0	0	(E)	
14 NOV 0100				SW	4		0	0	(E)	

HOURS CLASS 1

HOURS CLASS 2

HOURS CLASS 3

HOURS CLASS 4

HOURS CLEAR
TOWARDS SUN

VISUAL SKY PHOTOMETER No. 7

6

3

—

—

10

PHOTOGRAPHIC WEDGES No. 6A.

NIGHT
OBSERVATIONS

TIME P.S.T.

SKY

SEEING

OBSERVER

REMARKS

OTHER NOTES FOR DATE

NOTE SPCL. obs. taken at 1615.

(E)

DATE 14-15 NOV 48

DAY MONTH YEAR

DAYTIME OBSERVATIONS

TO TEST SUITABILITY FOR
SITE FOR SOLAR RESEARCH

FORM 1100-1948

WHITE MOUNTAIN OBSERVATORY

% MR ELLIOTT EARLL

BIG PINE, CALIFORNIA

T E GCT	WEDGE READING	BRIGHTNESS	REDUCED SKY	SEEING	WIND DIRECTION	WIND SPEED	ATMOS. PRESSURE	CLOUD TYPE	CLOUD COVER (TENTHS)	OBSERVER	REMARKS
1500	3.6	49	4	SW	15			S1	3	(E)	Hi S1 TO NW.
1600				SW	13			S1	3	(E)	S1 obscured Sun.
1700	1.4	390	2	SW	17			S2	5	(E)	Low S1 near Sun.
1800			2	SW	12			S2	7	(E)	Sun obscured by S2
1900				SW	15			S2	6	(E)	
2000				W	10			S2	8	CLD	Sun obscured.
2100	0.2	1070	7	SW	12			S2	7	CLD	Thin S2 over Sun
2200			7	SW	11			S2	7	CLD	S2 over Sun
2300			7	W	15			S2	7	CLD	S2 over Sun
2400				W	16			S2K3	7-4	CLD	S2 over Sun
15 NOV 0100				W	8			S2K3	4-6	CLD	

HOURS CLASS 1 HOURS CLASS 2 HOURS CLASS 3 HOURS CLASS 4 HOURS CLEAR TOWARDS SUN

1

—

—

1

4

VISUAL SKY PHOTOMETER No. 7

PHOTOGRAPHIC WEDGE No. 6A.

NIGHT
OBSERVATIONS

TIME PST.

SKY

SEEING

OBSERVER

REMARKS

OTHER NOTES FOR DATE

CLD = CL Dodge.

DAY MONTH YEAR

BIG PINE, CALIFORNIA

OTHER NOTES FOR DATE

Day 20074 42000

TIME	W	GCT.	WEDGE READING	REDUCED SKY BRIGHTNESS	SEEING	WIND DIRECTION	WIND SPEED	ATMOS. PRESSURE	CLOUD TYPE	CLOUD COVER (Tenths)	OBSERVER	REMARKS
1500						W	18	682.5	K2	3	FD	
1600						W	21	682.7	K3	6	FD	
1700						W	17	682.8	K3	5	FD	
1800						W	21	682.5	S3	5	FD	
1900						W	21	682.1	S3	4	FD	
2000						W	14	681.4	S2	3	FD	
2100	3.0	81	3	W	18	681.1	S1	2	(8)			
2200	2.6	130	6	W	19	680.1	K1	3	FD			
2300	3.1	29	7	SW	27	679.9	K1	2	FD			
2400				W	20	679.5	K1	2	FD			
17 NOV 0100				W	14	679.3	K1	2	FD			

HOURS CLASS 1	HOURS CLASS 2	HOURS CLASS 3	HOURS CLASS 4	HOURS CLEAR TOWARDS SUN	VISUAL SKY PHOTOMETER No. 7
—	3	—	—	3	PHOTOGRAPHIC WEDGE No. 6A.

NIGHT OBSERVATIONS	TIME P.S.T.	SKY	SEEING	OBSERVER	REMARKS

OTHER NOTES FOR DATE

DAY MONTH YEAR

TO TEST SUITABILITY OF
SITE FOR SOLAR RESEARCH

Forst, Nov. 29, 1908

9/ MR. ELLIOTT EARLE

BIG PINE, CALIFORNIA

HOURS CLASS 1	HOURS CLASS 2	HOURS CLASS 3	HOURS CLASS 4	HOURS CLEAR TOWARDS SUN	VISUAL SKY PHOTOMETER No. <u>7</u>	
8	2	—	—	12	PHOTOGRAPHIC WEDGE No. <u>6A.</u>	
NIGHT OBSERVATIONS		TIME P.S.T.	SKY	SEEING	OBSERVER	REMARKS

OTHER NOTES FOR DATE

wind gusty all day

2004 年 4 月 7 日 15 时 45 分

TO TEST SUITABILITY OF
SITE FOR SOLAR RESEARCH

Factorial - 4000, 1000, 100, 10

BIG PINE, CALIFORNIA

OTHER NOTES FOR DATE

DATE 19-20 NOV 48

DAY MONTH YEAR

DAY TIME OBSERVATIONS

TO TEST SUITABILITY OF
SITE FOR SOLAR RESEARCH

FROM NOV. 1946

WHITE MOUNTAIN OBSERVATORY

% MR. ELLIOTT EARLE

BIG PINE, CALIFORNIA

T E GCT	WEDGE READING	BRIGHTNESS REDUCED SKY	SEEING	WIND DIRECTION	WIND SPEED	ATMOS. PRESSURE	CLOUD TYPE	CLOUD COVER (TENTHS)	OBSERVER	REMARKS
1500				W	16	675.1	S1	3	FD	Sun obscured by S1
1600				W	15	674.9	K2	3	RWM	Sun obscured by K2
1700				W	13	674.7	K3	4	RWM	Sun obs. by K3
1800				W	19	674.8	K3	4	RWM	Sun obs. by K3
1900				W	14	674.8	S2	6	RWM	Sun obs. by S2
2000				W	14	674.2	K3	4	RWM	Sun obs. by K3
2100				W	15	674.1	K3	4	RWM	
2200				W	17	674.0	K3	5	RWM	
2300				W	16	673.9	K3	5	RWM	
2400	3.2	78	6	W	8	674.0	K3	4	RWM	
20 NOV 0100				W	8	674.3	K2	2	RWM	

HOURS CLASS 1 HOURS CLASS 2 HOURS CLASS 3 HOURS CLASS 4 HOURS CLEAR TOWARDS SUN

VISUAL SKY PHOTOMETER No. 7

PHOTOGRAPHIC WEDGE No. 6A.

NIGHT OBSERVATIONS	TIME PST.	SKY	SEEING	OBSERVER	REMARKS

OTHER NOTES FOR DATE

Day	Month	Year
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% MR. ELLIOTT EARLE
BIG PINE, CALIFORNIA

HOURS CLASS 1	HOURS CLASS 2	HOURS CLASS 3	HOURS CLASS 4	HOURS CLEAR TOWARDS SUN	VISUAL SKY PHOTOMETER No. <u>7</u>
—	2	—	—	3	PHOTOGRAPHIC WEDGE No. <u>6A</u>

NIGHT
OBSERVATIONS

TIME P.S.T.

SKY

SEEING

REMARKS

OTHER NOTES FOR DATE

DAWSON, J. 1972. 11. 2. 1972

% MR. ELLIOTT EARLE
BIG PINE, CALIFORNIA

22 Mar			N	18	682.0	0	0	FD	Sundown
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OTHER NOTES FOR DATE

DRY MEAT 4.20

% MR. ELLIOTT EARLE
BIG PINE, CALIFORNIA

TIME G.C.T.	WEDGE READING	REDUCED SKY BRIGHTNESS	SEING	WIND DIRECTION	WIND SPEED	ATMOS. PRESSURE	CLOUD TYPE	CLOUD COVER (tenths)	DISCUSS	REMARKS
1500	2.4	155	4	NW	2	683.8	S4	1	RWM	
1600	2.4	155	4	NW	3	684.1	S4	2	RWM	
1700	2.2	190	3	NW	8	684.2	S3	1	RWM	
1800				NW	4	684.2	S2	6	RWM	
1900	1.4	390	3	NW	4	684.2	S2	3	RWM	
2000	1.8	260	4	N	2	683.7	S1	4	RWM	
2100				N	8	682.9	S2	9	RWM	
2200				SW	2	683.1	S2	9	RWM	
2300				C	—	683.1	S2	9	RWM	
2400				N	7	683.0	S2	8	RWM	
23 NOV 0100				C	—	683.0	S2	4	(E)	Sundown.

HOURS CLASS 1	HOURS CLASS 2	HOURS CLASS 3	HOURS CLASS 4	HOURS CLEAR TOWARDS SUN	VISUAL SKY PHOTOMETER No. 7
—	—	5	—	5	PHOTOGRAPHIC WEDGE No. 6A.

NIGHT	TIME P.S.T.	SKY	SEEING	OBSERVER	REMARKS
OBSERVATIONS					

OTHER NOTES FOR DATE

Day	Month	Year
1	1	1900
2	2	1901
3	3	1902
4	4	1903
5	5	1904
6	6	1905
7	7	1906
8	8	1907
9	9	1908
10	10	1909
11	11	1910
12	12	1911
13	1	1912
14	2	1913
15	3	1914
16	4	1915
17	5	1916
18	6	1917
19	7	1918
20	8	1919
21	9	1920
22	10	1921
23	11	1922
24	12	1923
25	1	1924
26	2	1925
27	3	1926
28	4	1927
29	5	1928
30	6	1929
31	7	1930
32	8	1931
33	9	1932
34	10	1933
35	11	1934
36	12	1935
37	1	1936
38	2	1937
39	3	1938
40	4	1939
41	5	1940
42	6	1941
43	7	1942
44	8	1943
45	9	1944
46	10	1945
47	11	1946
48	12	1947
49	1	1948
50	2	1949
51	3	1950
52	4	1951
53	5	1952
54	6	1953
55	7	1954
56	8	1955
57	9	1956
58	10	1957
59	11	1958
60	12	1959
61	1	1960
62	2	1961
63	3	1962
64	4	1963
65	5	1964
66	6	1965
67	7	1966
68	8	1967
69	9	1968
70	10	1969
71	11	1970
72	12	1971
73	1	1972
74	2	1973
75	3	1974
76	4	1975
77	5	1976
78	6	1977
79	7	1978
80	8	1979
81	9	1980
82	10	1981
83	11	1982
84	12	1983
85	1	1984
86	2	1985
87	3	1986
88	4	1987
89	5	1988
90	6	1989
91	7	1990
92	8	1991
93	9	1992
94	10	1993
95	11	1994
96	12	1995
97	1	1996
98	2	1997
99	3	1998
100	4	1999
101	5	2000
102	6	2001
103	7	2002
104	8	2003
105	9	2004
106	10	2005
107	11	2006
108	12	2007
109	1	2008
110	2	2009
111	3	2010
112	4	2011
113	5	2012
114	6	2013
115	7	2014
116	8	2015
117	9	2016
118	10	2017
119	11	2018
120	12	2019
121	1	2020
122	2	2021
123	3	2022
124	4	2023
125	5	2024

24 Nov					W	①	682.4	①	①	②	Sundown
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OTHER NOTES FOR DATE

DATE 24-25 NOV 48

DAY MONTH YEAR

DAY TIME OBSERVATIONS

TO TEST SUITABILITY OF
SITE FOR SOLAR RESEARCH

FORM NOV. 1946

WHITE MOUNTAIN OBSERVATORY

% MR. ELLIOTT EARLL
BIG PINE, CALIFORNIA

T E GCT.	WEDGE READING	REDUCED SKY BRIGHTNESS	SEEING	WIND DIRECTION	WIND SPEED	ATMOS. PRESSURE	CLOUD TYPE	CLOUD COVER (TENTHS)	OBSERVER	REMARKS
1500				W	12	678.2	5' K3	7	(E)	
1600	4.4	19	5	W	24	677.5	K	3	(E)	Sun in clear 15 on WTS Horizon
1700	5.1	9	6	W	20	677.6	O	0	(E)	2nd K near SE Horizon
1800	3.0	82	5	W	19	677.5	K	3	(E)	Some SI near Sun
1900	3.9	32	6	W	20	677.0	K	7	(E)	Sun in clear clouds to W + SW
2000				W	14	676.5	K	9	(E)	Sun obscured.
2100				W	6	676.1	K	9	(E)	started to snow
2200				SW	14	675.7	K	9	(E)	
2300				W	10	675.5	K	9	(E)	
2400				W	11	675.0	K	8	FD	
2500 2100				W	12	674.7	K	3	FD	

HOURS CLASS 1 HOURS CLASS 2 HOURS CLASS 3 HOURS CLASS 4 HOURS CLOUD
TOWARDS SUNVISUAL SKY PHOTOMETER No. 7PHOTOGRAPHIC WEDGE No. 64NIGHT
OBSERVATIONS

TIME P.S.T.

SKY

SEEING

OBSERVER

REMARKS

OTHER NOTES FOR DATE

DATE 25-26-NOV-48

DAY MONTH YEAR

DAY TIME OBSERVATIONS

TO TEST SUITABILITY OF
SITE FOR SOLAR RESEARCH

FORM NO. 1-48

WHITE MOUNTAIN OBSERVATORY

% MR. ELLIOTT EARLL

BIG PINE, CALIFORNIA

TIME GCT.	WEDGE READING	REDUCED SKY BRIGHTNESS	SEEING	WIND DIRECTION	WIND SPEED	ATMOS. PRESSURE	CLOUD TYPE	CLOUD COVER (TENTHS)	OBSERVER	REMARKS
1500	3.3	60	6	W	12	673.4	0	0	FD	
1600	3.7	39	7	W	20	673.3	0	0	FD	
1700	3.6	49	8	SW	16	673.3	0	0	FD	
1800	3.8	35	8	W	24	673.9	K	1	FD	
1900	3.9	32	8	W	19	673.0	K1	3	FD	
2000	3.9	32	8	SW	20	671.9	K1	2	FD	
2100	3.7	39	8	SW	16	671.4	K1	2	FD	
2200	4.0	29	8	SW	22	670.6	K1	2	FD	
2300	4.0	29	7	W	17	670.2	K1	2	FD	
2400	2.9	96	6	W	20	670.0	0	0	FD	K1 to W
26 NOV 0100				W	8	669.7	0	0	FD	

HOURS CLASS 1	HOURS CLASS 2	HOURS CLASS 3	HOURS CLASS 4	HOURS CLEAR TOWARDS SUN	VISUAL SKY PHOTOMETER No. 7	
8	2	—	—	10	PHOTOGRAPHIC WEDGE No. 6A	
NIGHT OBSERVATIONS		TIME P.S.T.	SKY	SEEING	OBSERVER	REMARKS

OTHER NOTES FOR DATE

DATE 26-27-NOV-48

DAY MONTH YEAR

DAY TIME OBSERVATIONS

TO TEST SUITABILITY OF
SITE FOR SOLAR RESEARCH

Faint, low sun

WHITE MOUNTAIN OBSERVATORY

% MR. ELLIOTT EARLE

BIG PINE, CALIFORNIA

TIME GCT.	READING WEDGE	REDUCED SKY BRIGHTNESS	SEEING	WIND DIRECTION	WIND SPEED	ATMOS. PRESSURE	CLOUD TYPE	CLOUD COVER (PER- CENT)	OBSERVER	REMARKS
1500				N	6	669.2	K5	10	FD	SNOWING
1600				N	10	669.8	K5	10	FD	SNOWING
1700				N	7	670.3	K3	6	FD	SNOWING
1800				N	12	670.9	K3	6	(E)	
1900				N	9	671.1	K	6	(E)	Sun obscured close to W.M. mtn (NW)
2000	3.6	49	6	NW	8	671.3	O	0	(E)	SNOW blowing
2100	2.1	220	6	NE	9	671.3	K1	3	(E)	It back to NE sun clear
2200				N	11	672.0	K2	5	(E)	K2 obscuring sun snowing lightly
2300	2.0	230	5	N	8	672.5	K2	3	(E)	SNOW blowing between sun and instrument
2400	2.0	230	4	NW	9	673.1	O	0	(E)	
27 NOV 0100				NW	4	673.6	O	0	(E)	Sundown

HOURS CLASS 1	HOURS CLASS 2	HOURS CLASS 3	HOURS CLASS 4	HOURS CLEAR TOWARDS SUN
1	—	3	—	6

VISUAL SKY PHOTOMETER No. 7

PHOTOGRAPHIC WEDGE No. 6A

NIGHT OBSERVATIONS	TIME PST.	SKY	SEEING	OBSERVER	REMARKS

OTHER NOTES FOR DATE

DATE 27-28 NOV 48

DAY MONTH YEAR

DAYTIME OBSERVATIONS

TO TEST SUITABILITY OF
SITE FOR SOLAR RESEARCH

FORM NOV. 1947

WHITE MOUNTAIN OBSERVATORY

% MR. ELLIOTT EARLE

BIG PINE, CALIFORNIA

T E G.C.T.	WEDGE READING	BRIGHTNESS SKY	SEEING	WIND DIRECTION	WIND SPEED	ATMOS. PRESSURE	CLOUD TYPE	CLOUD COVER (TENTHS)	OBSERVER	REMARKS
1500	3.1	78	4	W	10	682.0	0	0	(E)	
1600	5.2	8.4	4	NW	7	682.6	0	0	(E)	NOTE. 8.4 is correct do not read eighty-four (E)
1700	5.0	10	5	NW	9	683.3	0	0	(E)	
1800	4.0	29	5	N	2	684.1	0	0	FD	
1900	4.0	29	6	C	—	684.1	0	0	FD	
2000	4.4	19	7	E	4	684.1	0	0	FD	
2100	4.0	29	7	SW	6	684.2	0	0	FD	
2200	4.4	19	6	SW	13	684.5	0	0	FD	
2300	4.4	19	5	SW	6	685.0	0	0	FD	
2400	3.3	60	5	SW	4	685.3	0	0	FD	
28 Nov 0100				SW	2	685.9	0	0	FD	

HOURS CLASS 1 HOURS CLASS 2 HOURS CLASS 3 HOURS CLASS 4 HOURS CLEAR TOWARDS SUN

VISUAL SKY PHOTOMETER No. 7

PHOTOGRAPHIC WEDGE No. 6A.

NIGHT
OBSERVATIONS

TIME PST.

SKY

SEEING

OBSERVER

REMARKS

OTHER NOTES FOR DATE

DATE 28-29-NOV 48

WHITE MOUNTAIN OBSERVATORY

1/2 MR. ELLIOTT EARLE
BIG PINE, CALIFORNIA

T E GCT	WEDGE READING	REDUCED SKY BRIGHTNESS	SEEING	WIND DIRECTION	WIND SPEED	ATMOS- PRESSURE	CLOUD TYPE	CLOUD COVER (TENTHS)	OBSERVER	REMARKS
1500	3.2	78	6	SW	8	686.2	0	0	FD	
1600	4.1	27	6	SW	7	686.3	0	0	FD	
1700	3.5	50	5	W	15	686.5	0	0	FD	
1800	3.8	35	5	W	16	686.5	0	0	FD	
1900	3.8	35	6	SW	20	686.0	0	0	FD	
2000				SW	24	685.0	S1	3	FD	Sun obscured by S1
2100				W	21	684.9	S5	6	FD	Sun obscured by S2
2200				W	19	684.4	S3	6	FD	Sun obscured by S2
2300				W	18	684.2	S3	6	FD	Sun obscured by S3
2400				W	20	684.0	S3	7	FD	Sun obscured by S3
28 NOV 0100				W	19	683.8	S3	7	FD	Sun down

HOURS CLASS 1	HOURS CLASS 2	HOURS CLASS 3	HOURS CLASS 4	HOURS CLAMP TOWARDS SUN	VISUAL SKY PHOTOMETER No. 7	
4	1			6	PHOTOGRAPHIC WEDGE No. 6A.	
NIGHT OBSERVATIONS		TIME P.S.T.	SKY	SEEING	OBSERVER	REMARKS

OTHER NOTES FOR DATE

Day Nov 21 1872

TO TEST SUITABILITY OF
SITE FOR SOLAR RESEARCH

% MR. ELLIOTT EARLE

BIG PINE, CALIFORNIA

HOURS CLASS 1	HOURS CLASS 2	HOURS CLASS 3	HOURS CLASS 4	HOURS CLEAR TOWARDS SUN	VISUAL SKY PHOTOMETER	NO. 7
2	8	—	—	12	PHOTOGRAPHIC WEDGE	NO. 6A.
NIGHT OBSERVATIONS		TIME P.S.T.	SKY	SEEING	OBSERVER	REMARKS

OTHER NOTES FOR DATE

DATE 30 NOV 1948
DAY MONTH YEAR

DAY TIME OBSERVATIONS

TO TEST SUITABILITY OF
SITE FOR SOLAR RESEARCH

Form, NOV. 1946

WHITE MOUNTAIN OBSERVATORY

% MR. ELLIOTT EARLE
BIG PINE, CALIFORNIA

T E GCT.	WEDGE READING	BRIGHTNESS	REDUCED SKY BRIGHTNESS	SEEING	WIND DIRECTION	WIND SPEED	ATMOS. PRESSURE	CLOUD TYPE	CLOUD COVER (TENTHS)	OBSERVER	REMARKS
1500	3.5	50	2	—	C	680.2	K2	7	(E)		Sun in clear below clouds
1600					W	5	680.2	K3	7	(E)	Sun obscured by K3
1700	3.4	54	3		W	15	680.2	K2	4	(E)	K2 near limb of Sun
1800					W	13	680.1	K2	5	(E)	Sun obscured by K2
1900					W	12	680.0	K3	8	(E)	Snow on snows to SW Rain over desert to SE.
2000					W	10	679.2	K3	9	(E)	^{Sun obscured.} Trace of snow
2100	4.0	29	4		W	20	677.9	K2	1	(E)	K on horizon Sun in clear
2200	2.1	210	4		W	21	677.7	K2	2	(E)	K2 near sun
2300					W	22	677.1	K2	5	(E)	Sun obscured by K2
2400					W	17	676.9	K3	6	(E)	
1 DEC 0100					W	21	676.5	K2	6	(E)	Sundown

HOURS CLASS 1	HOURS CLASS 2	HOURS CLASS 3	HOURS CLASS 4	HOURS CLEAR TOWARDS SUN	VISUAL SKY PHOTOMETER No. 7	
2	1	1	—	5	PHOTOGRAPHIC WEDGE No. 6A.	
NIGHT OBSERVATIONS		TIME P.S.T.	SKY	SEEING	OBSERVER	REMARKS

OTHER NOTES FOR DATE

SKY CLASS DEFINITIONS

Class 1	Photometer	0 - 50 incl. (millionths)
Class 2	Photometer	51 -150 incl.
Class 3	Photometer	151 -300 incl.
Class 4	Photometer	301 -500 incl.

If over 500 do not count at all.

COLUMN REFERENCES FROM REVERSE

1. Greenwich Civil Time of observations.
2. Wedge scale reading (as engraved on wedge).
3. Reduced sky brightness - Expresses surface brightness of atmospheric halo near sun's limb in millionths of the surface brightness of the sun's disk.
4. Seeing - On arbitrary scale of 0 to 10, with 0 = worst seeing and 10 = best seeing attained.
5. Wind direction (geographical) (N, NE, E, SE, S, SW, W, NW).
6. Wind speed in miles per hour.
7. Atmospheric pressure - Sea-level corrected pressure in inches of mercury.
8. Cloud type and density - S = Cirrus or cirrus-like
X = Cumulus or cumulus-like
Followed by numbers which indicate density on scale 1 - 5 where
1 = Thinest clouds
5 = Densest clouds of this type
For example: K3-K4 or K3-4 means cumulus-like clouds of density 3 to 4, i.e., rather dense.
9. Cloud cover - Tenths of sky covered by clouds described in Column 8.
10. Initials or symbol of observer - © = Elliott Earll
RWM = Robert W. Mosher
F.D. = Fines Diamond
11. Remarks